Xtreme SERIES TERRAZZO

SURECRETE DESIGN PRODUCTS

Toll Free - 1.800.544.8488
www.SureCreteDesign.com
www.TheConcreteWhisperer.com

Technical Data

COVERAGE
50 lb. bag- ***XS Terrazzo Mix*** = approx. 20 sq. ft. @ ½" (Based on minimum aggregate load. It Can vary based upon aggregate selection)

TECHNICAL DATA
Compressive Strength (C170)
10,567 PSI

Flexural Strength (C880)
1,464 PSI

Abrasion Resistance (C1353-96)
20.92

Bond Strength (C482)
83 PSI

Material Density
137 lbs./cubic feet

Water Permeability (Not ASTM)
3 days/no leak

CURING
Although curing is accomplished through chemical reaction, weather conditions impart a measure of variability that must be considered. Hot, dry, and/or windy weather speeds up the reaction. Conversely, cold, damp weather will slow down the reaction. These variables may dramatically affect the progress of the terrazzo mix cure. Common sense should dictate appropriate adjustments in timing the project.

LIMITATIONS
Do not allow ***Xtreme Countertop Modifier*** to freeze. Cast product in temperatures between 40º and 90º F. Competent contractors experienced in the placement of this product should apply this product.

DESCRIPTION
Xtreme Series Terrazzo is a dual component bag mix designed for the introduction of glass, granite, and other specialty aggregates. The 50 pound bag requires the use of **2 gallons of *XS PreCast Modifier*** and a **minimum of 50 pounds aggregate**. This mix design provides the opportunity to earn "green" points on precast concrete projects by using recycled content.

USES
Xtreme Series Terrazzo is used for numerous applications such as concrete slab production, countertops, sinks, fireplace surrounds, furniture pieces, wall panels and other areas that require a polished exposed aggregate effect.

** Can be left unpolished for a unique look as well.*

CHEMICAL MAKEUP
Xtreme Terrazzo's mix design combines the most advanced chemical technology with modern fiber advancements, to create an unparalleled terrazzo mix design. This technology combines the raw materials of cement and aggregates with other ingredients into a stronger, denser cementitious composite than ever before possible.

MIXING
Xtreme Terrazzo is formulated with **NO** aggregates in its 50 pound bag. Depending on the desired results, based on aggregate selection, coverage will vary. Aggregate size and content is dependant on the contractor. Samples should always be performed before committing to any project.

Aggregate Load Formula* A minimum of 50 lb's of aggregate must be used per 50 pound bag of ***Xtreme Series Terrazzo Bag Mix.*** Of the total aggregate load, 20% of load must be fine aggregate (ie. 50 lb Total aggregate / 10 lb's being Fine aggregate). The maximum aggregate addition should not exceed 80 lb's of aggregate, including fines, per bag.
(ie. 80 lb Total aggregate / 16 lb's being Fine aggregate).

1. In a 10 gallon mixing container add 2 gallons of shaken PreCast Modifier.
2. Add 4 color packs of the corresponding color.
3. Mix contents of 10 gallon bucket for 1 minute so color dissolves in liquid modifier.
4. Add contents of Xtreme Terrazzo Bag mix. Mix for 2-3 minutes until mix resembles a loose lump free consistency.
5. Add 2 bags (totaling 50 pounds) of premeasured aggregate. Mix for 1-2 minutes.
6. If needed up to 40 ounces of water can be added in to each bag/batch. Rarely will all 40 ounces be needed; only in very dry climates will this amount be necessary. Please visit www.surecrete.tv for a visual of the proper consistency of mix.
7. Once proper consistency has been achieved the combined material is ready to use.

Two Methods of Production

I. The first and simplest method is to pour slabs the thickness of the piece being cast similar to a "wet cast" technique. Therefore a simple 1.5 inch thick top would be poured at full thickness 1.5 inches all the way through the piece. Aggregates in this case would be buried in the top that would never be seen, this is fine if the desired aggregate is a simple inexpensive filler, but if the aggregate is a more expensive semi precious stone or shell the fabricator may want to limit the amount of material used to perform this operation… in this case there is a different method of fabrication mentioned below.
II. The second method involves using the Terrazzo mix as a "face coat" or the finished portion of what the customer will see and using the Xtreme Series Backer mix behind the Xtreme Terrazzo for added strength, lowered cost of fabrication and producing a lighter finished piece overall.

Regardless of the method of fabrication chosen… Wet Cast or as a Face coat, the mixing directions for both techniques are the same.

1. Cast ***XS Terrazzo*** in the finished mold at approximately 3/8 of an inch on all horizontal mold surfaces. If proper mixing protocol has been followed minimal vibration should be needed. If vibration is deemed necessary, ensure all vibration is done before the vertical areas of the mold are cast. Vibration will merely "wake up" the material forcing it to run off any vertical faces.
2. Begin placing material along the finished or exposed vertical surfaces; it is not needed in areas that are not seen. Take the time here to work the first pour (horizontal pour) and the vertical pour together so that an air line is not seen where the 2 pours meet each other.

Note: *Simply working the material up the face will suffice for vertical pours up to 1.5 inches. For pours that contain a vertical face exceeding 1.5 inches up to about 3 inches, XS Backer Mix can be used to "dam up" the XS Terrazzo. In some cases the exposed vertical surface will exceed dimensions mentioned here, in those cases a "B" mold would have to be made to contain the terrazzo at a constant 3/8" of an inch up the vertical surface.*

3. Once the ***XS Terrazzo*** has been placed at the appropriate thickness the ***XS Backer mix*** can be applied. The goal when doing this step is to have the materials laid into each other wet on wet and to try to maintain a minimum of 3/8 inch thickness with the product; this would render a completed top of combined Xtreme Terrazzo and ***XS Backer mix*** at ¾ of an inch thick. If difficulty in maintaining the 3/8 thick Terrazzo, a thicker Backer mix application will not hurt.

Note: *Keep in mind that a 2:1 bag ratio of backer to Terrazzo is an optimal utilization ratio and is a good ratio to follow when ordering product or job costing.*

APPLICATION

Most pieces can be demolded in as little as 4 hours depending on water content. Tooling may commence in most applications 8 hours after the pour. For maximum and most effective aggregate exposure, wet grind using SureCrete Polishing pad #50. To fill pinholes and voids, use SureCrete LD 1800 (Lithium Densifier), with the #100 pad. Then continue to polish to desired sheen using SureCrete Wet/Dry polishing pads. Product responds best to a dry polish.